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and moving-picture entertainments, are closed. These precautions have appeared to have a very favorable effect in stopping the outbreaks.

Several autopsies have been made and many animal inoculations and insect experiments by the pathologist, Dr. Stone. So far there has developed nothing new or significant.

This board is securing all data obtainable about the cases through field work by its inspector, Dr. H. A. Ladd, and a more complete history of the outbreak will be possible later.

## PLAGUE-ERADICATIVE WORK.

### CALIFORNIA.

The following report of plague-eradicative work in California for the week ended October 3, 1914, has been received from Surg. Long, of the United States Public Health Service, in charge of the work:

#### SAN FRANCISCO, CAL.

Number of premises inspected.....	1,147
Number of premises destroyed.....	28
Number of nuisances abated.....	259
Number of poisons placed.....	29,900
Average number of traps set daily.....	1,734

#### RATS COLLECTED AND EXAMINED FOR PLAGUE.

Collected.....	593
Found dead.....	3
Examined.....	434
Found infected.....	None.

#### RATS IDENTIFIED.

Mus norvegicus.....	291
Mus musculus.....	85
Mus alexandrinus.....	137
Mus rattus.....	80

#### RATS TAKEN FROM STEAMERS.

Steamer <i>Matsonia</i> .....	7 mus rattus
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#### PORT COSTA, CAL.

Rats trapped in warehouses.....	26
Rats trapped on waterfront.....	10
Rats trapped in sugar refinery.....	66
Rats examined.....	72
Amount of poisoned barley placed on hills (pounds).....	5
Amount of poisoned bread placed in sugar re- finery (pounds).....	4
Amount of poisoned bread placed in ware- houses (pounds).....	2

#### RATS IDENTIFIED.

Mus norvegicus.....	34
Mus musculus.....	13
Mus alexandrinus.....	25
Mus rattus.....	41

#### Record of plague infection.

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number rodents found infected since May, 1907.
Cities:				
San Francisco.....	Jan. 30, 1908	Oct. 23, 1908	None.....	398 rats.
Oakland.....	Aug. 9, 1911	Dec. 1, 1908	....do.....	126 rats.
Berkeley.....	Aug. 28, 1907	None.....	....do.....	None.
Los Angeles.....	Aug. 11, 1908	....do.....	Aug. 21, 1908	1 squirrel.
Counties:				
Alameda (exclusive of Oakland and Berkeley).	Sept. 24, 1909	Oct. 17, 1909 <sup>1</sup>	Aug. 7, 1914	286 squirrels, 1 wood rat.
Contra Costa.....	May 17, 1914	None.....	Aug. 25, 1914	1,563 squirrels.
Fresno.....	None.....	....do.....	Oct. 27, 1911	1 squirrel.
Merced.....	....do.....	....do.....	July 12, 1911	5 squirrels.
Monterey.....	....do.....	....do.....	Apr. 10, 1914	6 squirrels.
San Benito.....	June 4, 1913	....do.....	July 3, 1914	35 squirrels.
San Joaquin.....	Sept. 18, 1911	....do.....	Aug. 26, 1911	18 squirrels.
San Luis Obispo.....	None.....	....do.....	Jan. 29, 1910	1 squirrel.
Santa Clara.....	Aug. 31, 1910	....do.....	July 23, 1913	25 squirrels.
Santa Cruz.....	None.....	....do.....	May 17, 1910	3 squirrels.
Stanislaus.....	....do.....	....do.....	June 2, 1911	13 squirrels.

<sup>1</sup> Wood rat.

*Squirrels collected and examined for plague.*

County.	Shot.	Examined.	Found infected.
Alameda.....	36	36	None.
San Benito.....	108	108	None.
Contra Costa.....	350	350	None.
Total.....	494	494	None.

*Other animals collected and examined for plague.*

## Contra Costa County:

Weasel.....	1
Gopher.....	1

*Ranches inspected and hunted over.*

Alameda County.....	5
Contra Costa County.....	66
San Benito County.....	22
Total.....	93

*Operations on waterfront.*

Vessels inspected for rat guards.....	25
Reinspections made on vessels.....	18
New rat guards procured.....	29
Defective rat guards repaired.....	9
Vessels on which cargo was inspected.....	4

	Condition.	Rat evidence.
Steamer Matsonia from Hilo:		
20 bales hemp.....	O. K.....	None.
150 bunches bananas.....	O. K.....	None.
133 cases pineapples and empty cases.....	O. K.....	None.
Steamers Governor, Admiral Schley, and Congress:		
230 bags raw glue, bran, and flour.....	O. K.....	None.
250 boxes apples.....	O. K.....	None.
300 cases milk, tea, and empty cases.....	O. K.....	None.
20 crates household goods.....	O. K.....	None.
75 bales hides.....	O. K.....	None.
400 sacks flour and wheat.....	O. K.....	None.

Rats trapped on wharves and water front..	23	Poisons placed on water front (pieces).....	16,500
Rats trapped on vessels.....	21	Bait used on water front and vessels, bacon (pounds).....	6
Traps set on wharves and water front.....	194		
Traps set on vessels.....	129	Amount of bread used in poisoning water front (loaves).....	55
Vessels trapped on.....	9	Pounds of poison used on water front.....	27½
Vessels searched for dead rats after fumigation.....	2		
Dead rats found on vessels after fumigation.....	7		

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Operations are being carried on under Federal supervision on the following-named properties, labor and material being furnished:

Name.	Location.	Acres treated.
Poisoned grain:		
Moraga Co.....	Contra Costa County.....	1,330.58
Hooper Co.....	do.....	734.35
Peoples Water Co.....	do.....	3,260.00
G. A. Cressey ranch.....	Merced County.....	2,320.00
Ramsdell ranch.....	do.....	160.00
Grimes ranch.....	do.....	40.00
Chida ranch.....	do.....	20.00
Birchael ranch.....	do.....	40.00
Holland ranch.....	do.....	40.00
Destructors:		
Southern Pacific Co.....	do.....	1 4 $\frac{1}{2}$

1 Miles treated.

## MERCED COUNTY.

Miles of railroad right of way inspected.....	4 $\frac{1}{2}$
Holes treated.....	2,739

The work is being carried on in the following-named counties: Alameda, Contra Costa, San Francisco, San Joaquin, Monterey, Merced, Stanislaus, San Benito, Santa Cruz, and Santa Clara.

## LOUISIANA—NEW ORLEANS.

The following report of plague-eradicative work in New Orleans for the week ended October 10, 1914, has been received from Asst. Surg. Gen. Rucker, of the United States Public Health Service, in charge of the work:

OUTGOING QUARANTINE.	DESTINATION AND NUMBER OF RAILROAD CARS INSPECTED WEEK ENDING OCT. 10—continued.
Vessels fumigated with sulphur.....	68
Vessels fumigated with carbon monoxide...	15
Pounds of sulphur burned.....	9,619
Coke consumed in carbon monoxide fumigation (pounds.).....	32,000
Clean bills of health issued.....	26
Foul bills of health issued.....	6

## OVERLAND FREIGHT INSPECTION.

Cars inspected and passed.....	1,226
Cars rat proofed.....	2,206
Cars condemned.....	18
Total cars inspected.....	3,450

## DESTINATION AND NUMBER OF RAILROAD CARS INSPECTED WEEK ENDING OCT. 10.

Alabama.....	104
Arizona.....	1
Arkansas.....	26
California.....	44
Carolina, North.....	7
Carolina, South.....	5
Colorado.....	1
Connecticut.....	1
Dakota, North.....	3
Dakota, South.....	2
Delaware.....	3
Florida.....	58
Georgia, .....	42
Illinois.....	414
Indiana.....	39
Iowa.....	59
Kansas.....	17
Kentucky.....	30
Louisiana.....	1,259
Maryland.....	3
Massachusetts.....	13
Michigan.....	28
Minnesota.....	4
Mississippi.....	510
Maine.....	2
Missouri.....	160
Nebraska.....	3
New York.....	10
Ohio.....	78
Oklahoma.....	6
Oregon.....	2
Pennsylvania.....	10
Rhode Island.....	2
Tennessee.....	63
Texas.....	217
Virginia.....	2
West Virginia.....	3
Washington.....	4
Wisconsin.....	13
District of Columbia.....	2
Canada.....	4

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## FIELD OPERATIONS.

Rats trapped.....	6,404
Premises fumigated.....	30
Premises disinfected.....	669
Premises inspected.....	8,948
Poisons placed.....	139,004
Notices served.....	3,482
Buildings rat proofed during week ended Oct. 10.....	124
Buildings rat proofed to date.....	1,550
Abatements, week ended Oct. 10.....	1,442
Abatements to date.....	10,192
Dead inspected.....	148

## LABORATORY OPERATIONS.

Rats examined.....	5,059
Mus norvegicus.....	3,516
Mus alexandrinus.....	70
Mus ratus.....	37
Mus musculi.....	2,144
Unclassified putrid.....	427
Total rodents received at laboratory..	6,194
Number of suspicious rats.....	18
Plague rats confirmed.....	4

*Plague rats.*

Case No.	Address.	Captured.	Diagnosis confirmed.	Treatment of premises.
178	916 Washington Avenue.....	Sept. 27	Oct. 5	Summary destruction of rat harborage. Rat proofing initiated. Intensive trapping and poisoning.
179	In sewer St. Claude and St. Ann.....	do	do	Intensive trapping and poisoning.
180	200 South Rampart Street.....	Oct. 5	Oct. 6	Fumigation. Summary destruction of rat harborage. Rat proofing initiated. Intensive trapping and poisoning.
181	1013 Magazine Street.....	Sept. 26	do	See case 163.

*Human plague cases.*

Suspicious human cases examined.....	1
Number of human plague cases.....	1
Total number of human cases to date.....	30

Case No.	Name of place of infection.	Date suspicious.	Diagnosis confirmed.	Treatment of premises.
30	1120 Tulane Avenue.....	Sept. 30	Oct. 4	Fumigated. Rat proofing completed.

Total rodents captured to Oct. 10.....	112,716
Total rodents examined to Oct. 10.....	92,104

## Rodent cases to Oct. 10, by species:

Mus ratus.....	6
Mus alexandrinus.....	3
Mus norvegicus.....	172

Total rodents cases up to Oct. 10.....	181
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## WASHINGTON—SEATTLE.

The following report of plague-eradicateive work in Seattle for the week ended September 26, 1914, has been received from Surg. Lloyd, of the United States Public Health Service, in charge of the work:

RAT PROOFING.	WATER FRONT.
New buildings inspected.....	70
Basements concreted, new buildings (15).....sq. ft. 43,314	1,800
Floors concreted, new buildings (21).sq. ft. 68,972	18
Yards, etc., concreted, new buildings (4).....sq. ft. 2,840	1
Sidewalks concreted (3).....sq. ft. 304	45
Total concrete laid, new build- ings.....sq. ft. 115,430	2
New buildings elevated.....	8
Old buildings inspected.....	1
Premises rat proofed.....	40
Floors concreted, old buildings.....	1
Openings screened.....	32
Rat holes cemented.....	28
Doors rat proofed.....	6
Wire screening used.....sq. ft. 850	20
Buildings razed.....	3
	LABORATORY AND RODENT OPERATIONS.
	Dead rodents received.....
	Rodents trapped and killed.....
	Total.....
	379
	CLASSIFICATION OF RODENTS.
	Mus rattus.....
	Mus alexandrinus.....
	Mus norvegicus.....
	Mus musculus.....
	8
	64
	247
	60

The usual day and night patrol was maintained to enforce fencing and rat guarding.

## HAWAII.

The following reports of plague-eradicateive work in Hawaii have been received from Surg. Trotter, of the United States Public Health Service:

## Honolulu.

WEEK ENDED SEPTEMBER 26, 1914.

Total rats and mongoose taken.....	466	Classification of rats trapped:
Rats trapped.....	441	Mus alexandrinus..... 219
Mongoose trapped.....	3	Mus musculus..... 123
Rats found dead (Mus norvegicus).....	1	Mus norvegicus..... 81
Rats killed by sulphur dioxide.....	21	Mus rattus..... 18
Examined microscopically.....	392	Classification of rats killed by sulphur dioxide:
Under examination.....	0	Mus alexandrinus..... 21
Showing plague infection.....	0	

WEEK ENDED OCTOBER 3, 1914.

Total rats and mongoose taken.....	398	Average number of traps set daily..... 1,085
Rats trapped.....	383	Cost per rat destroyed..... cents.. 21
Mongoose trapped.....	14	Last case rat plague, Aiea, 9 miles from Honolulu, Apr. 12, 1910.
Rats found dead (Mus alexandrinus).....	1	Last case human plague, Honolulu, July 12, 1910.
Examined microscopically.....	340	Last case rat plague Kalopa stable, Paauhau, Ha- waii, Aug. 29, 1914.
Under examination.....	0	Last case human plague Paauhau Landing, Hawaii, Aug. 17, 1914.
Showing plague infection.....	0	
Classification of rats trapped:		
Mus alexandrinus.....	186	
Mus musculus.....	122	
Mus norvegicus.....	60	
Mus rattus.....	15	

## Hilo.

WEEK ENDED SEPTEMBER 19, 1914.

Rats and mongoose taken.....	2,111	Rats and mongoose plague infected.....	0
Rats trapped.....	2,063	Classification of rats trapped and found dead:	
Rats found dead.....	3	Mus norvegicus.....	504
Mongoose taken.....	45	Mus alexandrinus.....	324
Rats and mongoose examined macroscopically	2,111	Mus rattus.....	577
Rats and mongoose examined microscopically	0	Mus musculus.....	661
Rats and mongoose examined bacteriologically.....	0		

WEEK ENDED SEPTEMBER 26, 1914.

Rats and mongoose taken.....	1,967	Rats and mongoose plague infected.....	0
Rats trapped.....	1,915	Classification of rats trapped and found dead:	
Rats found dead.....	1	Mus norvegicus.....	481
Mongoose taken.....	51	Mus alexandrinus.....	275
Rats and mongoose examined macroscopically.....	1,967	Mus rattus.....	559
Rats and mongoose examined microscopically.....	0	Mus musculus.....	601
Rats and mongoose examined bacteriologically.....	0	Last case of rat plague, Paauhau Sugar Co., Aug. 29, 1914.	
Rats and mongoose examined bacteriologically.....	0	Last case of human plague, Paauhau Sugar Co., Aug. 16, 1914.	

## PORTO RICO.

The following is a summary of reports of plague-eradictive work in Porto Rico for the two weeks ended October 3, 1914:

*Rodents examined for infection.*

	Rats.	Mice.
San Juan.....	182	105
Puerto de Tierra.....	45	16
Santurce.....	428	41
Total.....	655	162